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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY RDT&E/Defense Wide/BA 3							R-1 ITEM NOMENCLATURE Agile Port Demonstration PE 0603728D8Z			
COST(<i>In Millions</i>)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total Program Element (PE) Cost	4.617	0	0	0	0	0	0	0	Continuing	Continuing
ADP/P728	4.617	0	0	0	0	0	0	0	Continuing	Continuing

(U) **A. Mission Description and Budget Item Justification**

(U) **BRIEF DESCRIPTION OF ELEMENT**

The goal of the program is to support the development and deployment of advanced concepts and technologies leading to an automated, fully-integrated, multi-modal Defense Transportation System (DTS) able to meet the needs of the 21st century. The Center for Commercial Development of Transportation Technologies (CCDoTT) is a DoD funded consortium of public, private, and academic activities brought together to identify and deploy advanced technologies that can be systematically integrated into ports and other transportation systems supporting both commercial and DoD transportation requirements. The purpose of the program is to compare traditional transportation methodologies with next generation technologies, identify the potential for these new technologies to support DoD mobility requirements, and determine the scenarios and criteria for their economic use.

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(U) **Project Number and Title: P728 ADP**

(U) **PROGRAM ACCOMPLISHMENTS AND PLANS**

(U) **FY1998 Accomplishments:**

(U) **Advanced Sealift Technologies.** Planned to conduct a military Sealift Emergency Deployment Readinesss Exercise (SEDRE) using a commercial high speed sealift vessel to transport troops and materiel from a military deployment port to a selected destination. Perform detailed design, analysis and evaluation of features identified in FY97 as necessary to make commercial vessels compatible with DoD Strategic & Tactical requirements and current DoD cargo handling systems. Focus included research and development, testing, evaluation and commercialization on top candidate enabling technologies for high speed marine applications as identified in FY97 assessments. Evaluated additional commercial ship designs and planned initiatives that can be effectively used for military support or adapted for use by the DoD. Performed more in-depth research on high speed sealift propulsion systems, cargo transfer equipment, and related systems. (\$ 1.250 Million)

(U) **Agile Port Technologies.** Conducted R&D scale demonstrations of selected state-of-the-art cargo handling technologies and port systems to quantitatively assess the improvements in deployment efficiency, reduced times, decrease in port congestion and increase in port-mobilization capabilities. Planned to demonstrate selected terminal management and information technologies to interface Agile Ports with the DTS. Increased sophistication of models & simulations and conducted optimization, design and cost analysis assessments of Agile Ports. Continued to develop, evaluate, and optimize Agile Port concepts and associated Intermodal Transfer (IT) in order to provide flexibility to future DoD mobility operations while serving both commercial and military needs. (\$ 2.170 Million)

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(U) **Rapid Deployment Technologies.** Demonstrated R&D scale models of technologies which leveraged advanced commercial Marine-Rail Interfaces in support of DoD intermodal deployments. Expanded modeling and simulation to include the hinterland region between the seaport and the Inland Port; integrated advanced Weigh In Motion (WIM) technology into an improved TrAMS; and expanded analysis and evaluations of advanced technologies offering maximum benefits to DoD mobility activities. (\$ 1.197 Million)

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(U) B. <u>Program Change Summary</u>	<u>FY1998</u>	<u>FY1999</u>	<u>FY2000</u>	<u>FY2001</u>	<u>Total Cost</u>
Previous Presidents Budget	4.778	0	0	0	Continuing
Appropriated Value		0	0	0	Continuing
Adjustments to Appropriated Value					
a. Congressionally Directed Undistributed Reduction	-.161	0	0	0	
b. Rescission/Below-threshold Reprogramming, Inflation Adjustment		0	0	0	
c. Other	0	0	0	0	
Current Presidents Budget	4.617	0	0	0	Continuing

Change Summary Explanation:

(U) **Funding:** FY 1998 reductions are based on inflation adjustments and other minor below threshold reprogramming.

(U) **Schedule:** N/A

(U) **Technical:**

(U) **C. OTHER PROGRAM FUNDING SUMMARY COST:** N/A

(U) **D. ACQUISITION STRATEGY:** N/A

(U) **E. SCHEDULE PROFILE:** N/A

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